

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number
WO 2005/086505 A1

(51) International Patent Classification⁷: **H04Q 7/22**

(74) Agent: **NAM, Sang-Sun**; 9th Fl., Maekyung Media Center, 30, 1-ga, Pil-dong, Jung-ku, Seoul 100-728 (KR).

(21) International Application Number:
PCT/KR2005/000681

(22) International Filing Date: 10 March 2005 (10.03.2005)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2004-0016293 10 March 2004 (10.03.2004) KR
10-2004-0016292 10 March 2004 (10.03.2004) KR

(71) Applicant (for all designated States except US): **SK TELECOM CO., LTD.** [KR/KR]; 99, Seorin-dong, Jongno-gu, Seoul, 110-110 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JU, Jae-Young** [KR/KR]; 343-1904, Yulgok Apt., Geumjeong-dong, Gunpo-si, Gyeonggi-do 435-050 (KR). **LEE, Sang-Yun** [KR/KR]; 305-1601, Saetbyeolmaeul Apt., Bundang-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-030 (KR). **HAHM, Hee-Hyeok** [KR/KR]; 705-2602, Sindong-a Riverpark Apt., Noryangjin-dong, Dongjak-gu, Seoul 156-050 (KR). **JOO, Young-Ho** [KR/KR]; 1202-704, Jugong Apt., Hugok Maeul, Ilsan-dong, Ilsan-gu, Goyang-si, Gyeonggi-do 411-310 (KR). **HAN, Kyeong-Hee** [KR/KR]; 505-1406, Jugong Apt., Gaepo 3-dong, Gangnam-gu, Seoul 135-243 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND SYSTEM FOR MANAGEMENT OF HANDOVER ONLY TRUNK LINE BETWEEN MOBILE SWITCHING CENTERS FOR HANDOVER IN MIXED MOBILE COMMUNICATION SYSTEM OF AN ASYNCHRONOUS NETWORK AND A SYNCHRONOUS NETWORK



(57) Abstract: Disclosed are a method and a system for management of handover only trunk line between mobile switching centers for handover in a mixed mobile communication system of an asynchronous network and a

synchronous network. The invention is performed to connect and disconnect a trunk line between asynchronous mobile switching centers and synchronous mobile switching centers, thereby sending and receiving of trunk line management messages wherein the message types are reset circuit message, blocking message, trunk test message and other additional types of message.



WO 2005/086505 A1